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SERVICE BULLETIN

Classification:

EC00-010C

Reference:

ITB00-026C

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Date:

July 5, 2001

2000 - 2002 G20 SULFUR OR "ROTTEN EGG" ODOR FROM EXHAUST

This amended version of ITB00-026B expands the Applied Models Section of the bulletin, adds Applied VIN and Date and an ECM P/N table. Please discard all paper copies of ITB00-026B.

APPLIED VEHICLE: 2000 - 2002 G20 (P11)
APPLIED VIN: Vehicles built before JNKCP11A82T504169
APPLIED DATE: Vehicles built before May 16, 2001

SERVICE INFORMATION

If an Applied 2000 - 2002 G20 model exhibits a sulfur or "rotten egg" odor from the exhaust, particularly during idle operation, it may be caused by high levels of sulfur in the fuel.

Fuels sold in many states outside California contain high levels of sulfur which are the likely cause of this incident. However, there is an updated ECM program available to assist in reducing this incident if it should occur.

NOTE: For an introduction to and description of ECM Reprogramming, please refer to ITB00-005.

IMPORTANT: Do NOT replace the catalytic converter for this incident because this may only aggravate the incident.

Use the Service Procedure outlined below to address this incident.

SERVICE PROCEDURE

NOTE: Detailed instructions for the ECM Reprogramming procedure can be found by clicking [here](#) or referring to Attachment "A" in the printed version of this bulletin.

CAUTION: The ECM can be permanently damaged if the reprogramming procedure is not performed correctly.

1. In ASIST go into Info Tool Box, then CONSULT Utilities, then ECM Data.
2. Select model/model year for the applied vehicle.
3. Select the applicable vehicle configuration for your vehicle from that listed in the upper right ECM data description window.
4. Click "Continue" button to download the new data from ASIST into CONSULT-II.
5. Perform download from CONSULT-II to the vehicle's ECM.
6. Using CONSULT-II access and print the new ECM P/N.

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PARTS INFORMATION

Vehicle	Current ECM P/N	New ECM Data P/N
2000, M/T (All)	23710-7J400, -7J401, -7J402	23710-7J460
2000, A/T (All)	23710-7J410, -7J411, -7J412	23710-7J470
2001 & 2002 M/T (All)	23710-6J105, -6J106, -6J107	23710-6J170
2001 & 2002 A/T (All)	23710-6J115, -6J116, -6J117	23710-6J180

NOTE: ECM replacement not required. ECM P/N's provided for reference only.

CLAIMS INFORMATION

For claims processing purposes only, submit a Primary Failed Part (PP) line using the following claims coding:

OPERATION	PFP	OP CODE	SYM	DIA	FRT
Reprogram ECM per technical bulletin (includes diagnosis, if required)	(1)	DE98AA	ZV	32	0.5 hrs.

(1) Reference the final CONSULT-II printout and use the indicated ECM P/N as the PFP. Retain the CONSULT-II printout of the ECM P/N with the Calibration ID and attach to the work order as a permanent record.



ATTACHMENT "A": ECM REPROGRAMMING FOR INFINITI VEHICLES

ECM Reprogramming involves two general steps:

- Download the ECM Reprogramming data from ASIST to CONSULT-II.
- Install the ECM Reprogramming data into the vehicle ECM.

CAUTION: The ECM can be permanently damaged if the Reprogramming procedure is not followed exactly. Do not attempt Reprogramming if the vehicle or the CONSULT-II batteries are low. Do not disconnect or disturb the CONSULT-II while ECM Reprogramming is in progress. If the ECM is damaged, it must be replaced.

Download ECM Reprogramming data into CONSULT-II from ASIST

1. Install the ECM Reprogramming Software Card (orange) into slot A of CONSULT-II (see Figure 1).

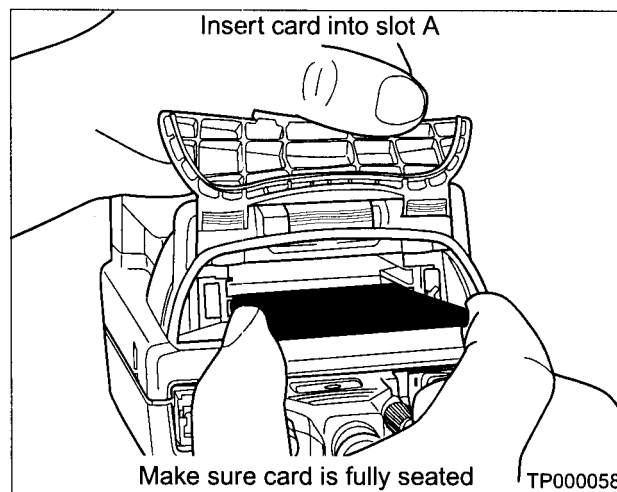


Figure 1

- 2a. Connect the AC power supply to CONSULT-II.
- 2b. Connect CONSULT-II to the ASIST PC with the special Ethernet cable (P/N 02002554, printed on the cable) contained in the CONSULT-II kit.

NOTE: DO NOT USE the network cable attached to the Infinitinet network.

NOTE: Connect the special Ethernet cable to the ASIST PC by connecting it to the Ethernet card connection port located on the back of the computer. Connect the special Ethernet cable to CONSULT-II at the PC port located at the bottom end of the CONSULT-II unit.

3. Confirm the CONSULT-II date and time is correctly set as follows:
 - A. With the ECM Reprogramming Software card in slot 1, turn on CONSULT-II.
 - B. Touch "Sub Mode".

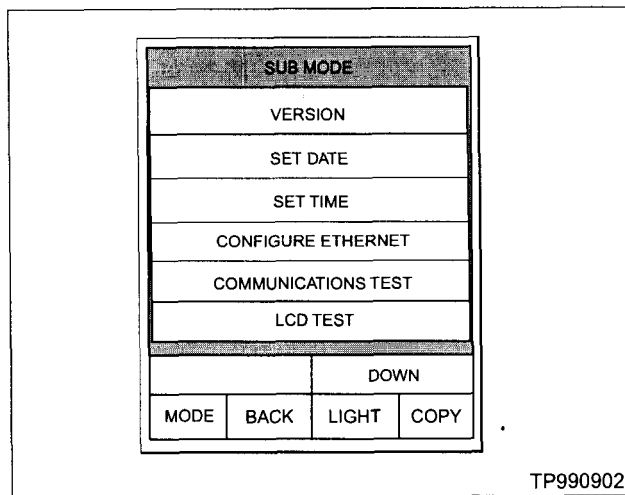


Figure 2

C. Touch "Set Date".

- If date is not correct, touch the month, day or year as needed. Then adjust it by using arrow keys. Once done, press "Save", press "Back" and go to step D.
- If date is OK, press "Back" and go to step D.

D. Touch "Set Time".

- If time is not correct, touch the hour, minute or AM/PM as needed. Then adjust it by using arrow keys. Once done, press "Save", press "Back" and go to step 4.
- If time is OK, press "Back" and go to step 4.

4. Set the Ethernet (IP) Address between the ASIST PC and CONSULT-II as follows:

NOTE: If your ASIST terminal has been used to perform ECM Reprogramming before, you may skip steps "A" through "J" below and proceed to step 5 on page 4.

If you are unsure whether your ASIST terminal has been already set up for ECM Reprogramming, proceed to step "A" below.

A. On the ASIST PC, click "Start", "Programs" and "MS-DOS".

B. When the MS-DOS Prompt window appears, after C:\WINDOWS> type: winipcfg (see Figure 3).

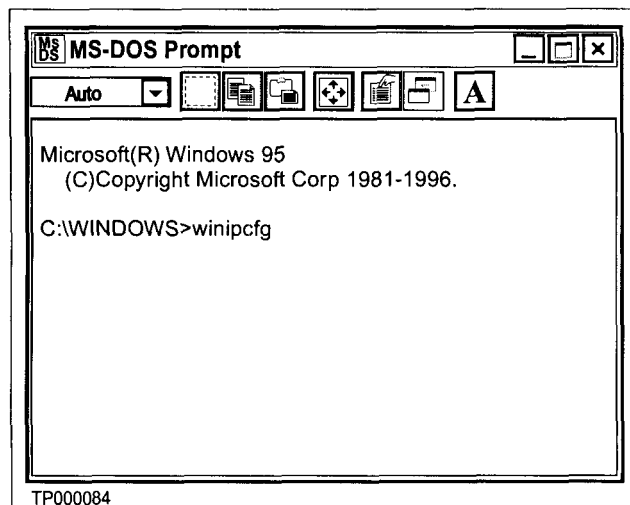


Figure 3

- C. Click "Enter". The "IP Configuration" window will display the IP Address and Subnet Mask (see Figure 4).

Figure 4 shows the "IP Configuration" window. It displays the "Ethernet Adapter Information" section, which includes a dropdown menu for the adapter (currently showing "IBM 100/10 Ether Jet PCI Adapter"). Below the dropdown are fields for the Adapter Address (00-60-94-63-A4-BA), IP Address (10.72.123.10), and Subnet Mask (255.255.255.0). At the bottom of the window are buttons for "OK", "Release", "Renew", "Release All", "Renew All", and "More Info". The text "TP000085" is visible at the bottom left of the window.

Figure 4

- D. On CONSULT-II touch "Sub Mode", then touch "Configure Ethernet".
- E. Compare the IP Address on the ASIST PC with the Address on the Configure Ethernet screen of CONSULT-II.
- If the first three sets of numbers of the CONSULT-II Address match the IP Address on the ASIST PC (as noted in step 4C above) proceed with step 4I below.
 - If the first three sets of numbers of the CONSULT-II Address do not match the IP Address on the ASIST PC, proceed with step 4F below.
- F. Touch the Address number on the CONSULT-II screen (titled "Configure Ethernet"). A numeric keypad will appear (see Figure 5).

NOTE: The IP Address for the ASIST PC you are working on will be different from the Address shown in Figure 5.

Figure 5 shows the "CONFIGURE ETHERNET" screen. It displays the "Address" field with the value "010.072.123.176" and the "Mask" field with the value "255.255.255.000". To the right of these fields is a note: "Important! Address must end with 176!". Below the address fields is a numeric keypad with digits 7, 8, 9, 4, 5, 6, 1, 2, 3, and a back arrow and 0. At the bottom of the screen are buttons for "Save", "Revert", "BACK", "LIGHT", and "COPY". The text "TP000020" is visible at the bottom right of the screen.

Figure 5

- G. Use the key pad to set the CONSULT-II Address to match the ASIST PC IP Address with the exception that the CONSULT-II Address number ends with 176.
- H. Touch "Save" and then press "Copy" to print the Address for future reference.

- I. Turn off CONSULT-II to allow the new Address to be saved in memory.
 - J. On the ASIST PC close the "IP Configuration" window, close the "MS-DOS Prompt" window, then proceed with step 5.
5. Launch ASIST. From the ASIST PC main menu screen, select "INFO. Tool Box" (see Figure 6).

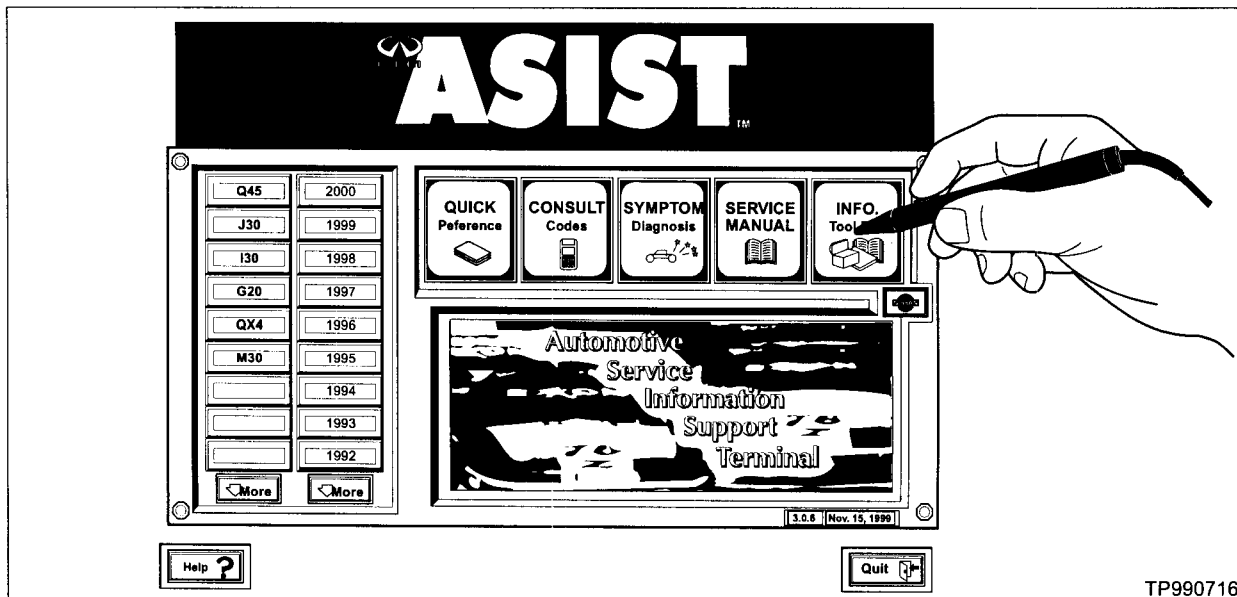


Figure 6

6. From the "INFORMATION TOOLBOX" screen, select "CONSULT Utilities" (see Figure 7).

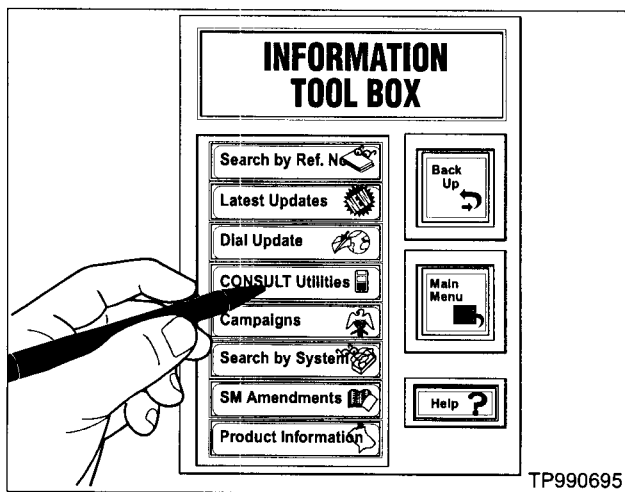


Figure 7

7. From the "CONSULT Utilities" screen, select "CONSULT-II", then select "ECM Data" (see Figure 8).

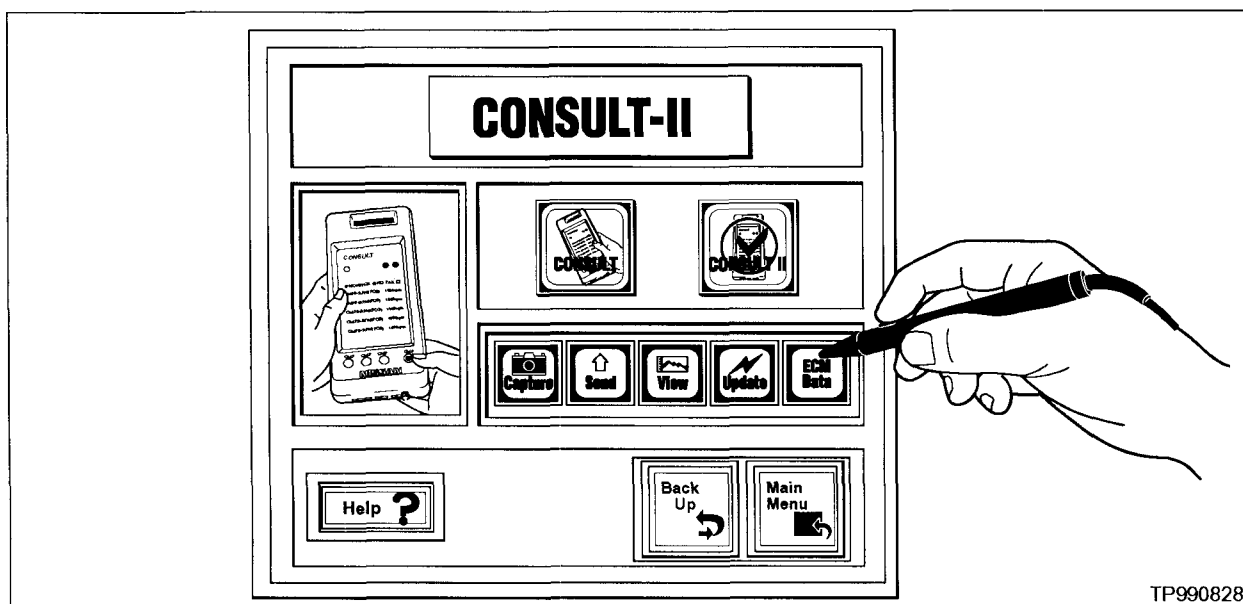
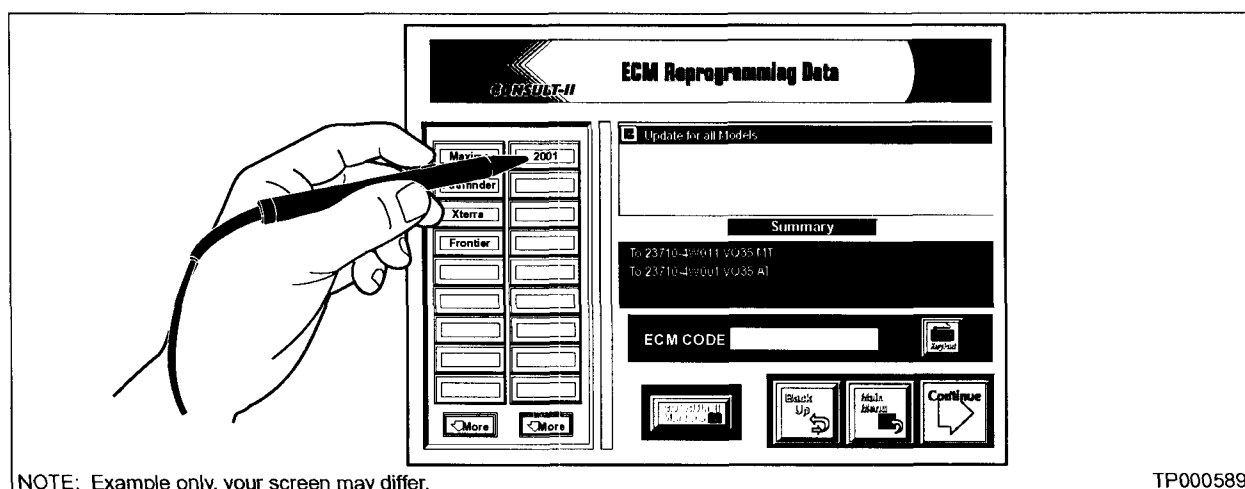


Figure 8

8. The "ECM Data Reprogramming" screen will be displayed (see Figure 9):



NOTE: Example only, your screen may differ.

Figure 9

- A. Select model and model year for the applied vehicle.
- B. Select the applicable vehicle configuration for your vehicle from that listed in the upper right ECM data description window.
 - If "Update for all Models" is the only listing, go to step C.
 - If multiple selections are listed (M/T vs A/T, Fed vs Cal, ect.), select the applicable vehicle configuration then go to step C.
- C. Click the "Continue" button on the ECM Data Reprogramming screen to proceed to CONSULT-II setup.

9. Turn on CONSULT-II as follows to access the file transfer mode:

- A. While pressing on the CONSULT-II screen with your thumb, quickly depress and release the ON/OFF switch (see Figure 10).

NOTE: A double-beep will sound after the ON/OFF switch is quickly depressed and released.

Release your thumb from the screen after a double-beep sound is heard.

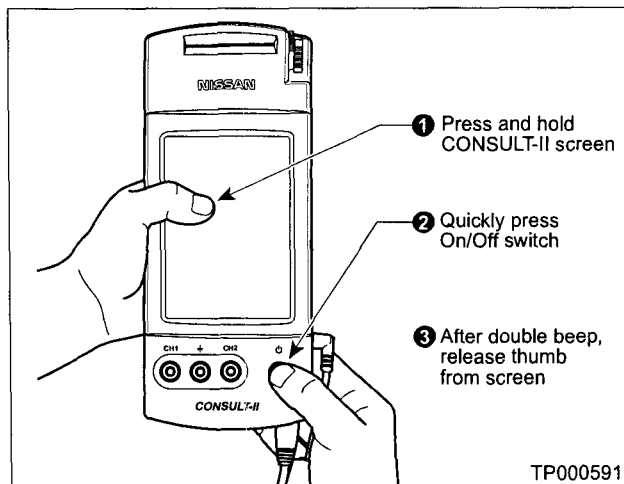


Figure 10

- B. Select "**Transfer files via Lan**" (see Figure 11). Set the CONSULT-II unit down for now.

NOTE: If you accidentally choose a menu option other than "**Transfer Files via Lan**", turn CONSULT-II off and restart it according to step 9A above.

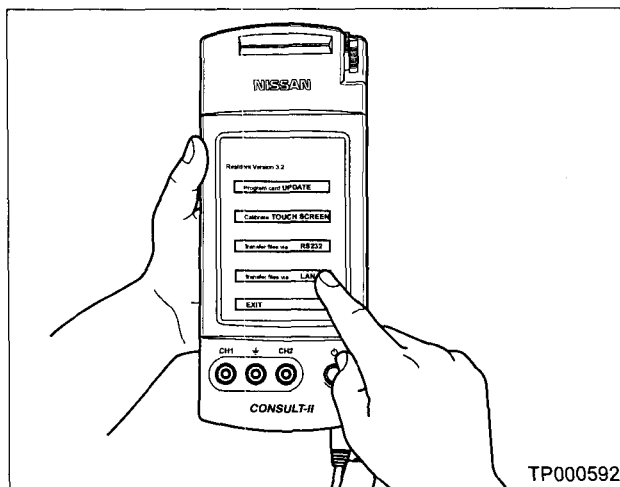


Figure 11

10. On ASIST, make sure the Ethernet (IP) Address (for CONSULT-II) displayed in the "Change IP Address" box is the same number you printed in step 4E or 4H on page 3, then select "Continue".

NOTE: If the Ethernet (IP) Address (for CONSULT-II) displayed in the "Change IP Address" box is not correct, turn CONSULT-II off and return to step 4 on page 2 of this procedure.

11. Click "Transfer." Data transfer will take about 1 minute and the progress of the transfer is displayed on the ASIST PC screen (see Figure 12). Wait until the data transfer is complete (see **CAUTION**, below).

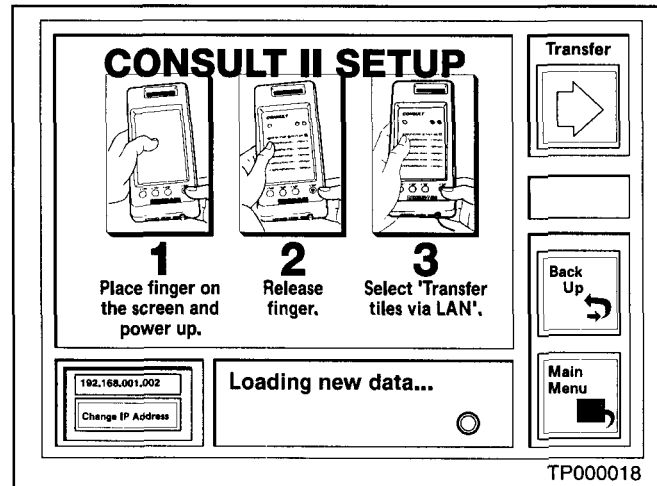


Figure 12

CAUTION: DO NOT DISCONNECT THE ETHERNET CABLE UNTIL "COMPLETE" IS DISPLAYED AS SHOWN IN FIGURE 13. If the cable is disconnected before "Complete" is displayed you **MUST** restart the download procedure. Otherwise ECM damage can occur. If the cable is disconnected during the transfer; close ASIST, push "Control/Alt/Delete" and select End task. Then return to step 5 on page 4.

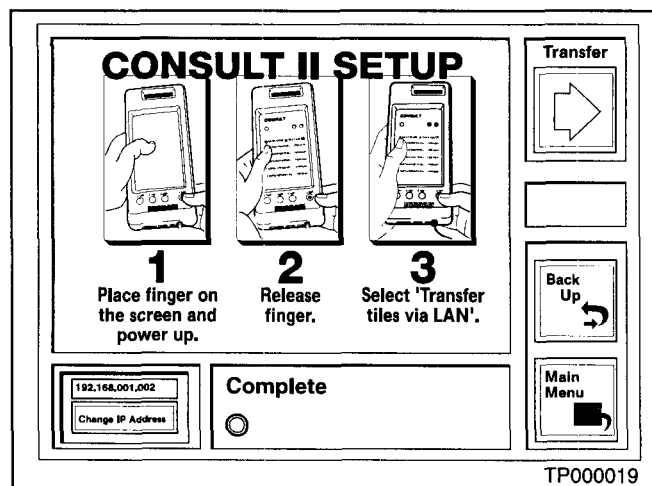


Figure 13

12. When transfer is complete select the "Main Menu" button on ASIST. Turn off CONSULT-II and disconnect the AC power cord and the Ethernet cable from CONSULT-II.

Install ECM Reprogramming data into the vehicle ECM from CONSULT-II

CAUTION: Perform this operation in four segments. DO NOT SKIP any of these segments.

- Check for DTC's in the ECM (blue card).
- Confirm the vehicle and CONSULT-II battery voltage (blue card).
- ECM Reprogramming (orange card).
- ECM Reprogram Confirmation.

Check for DTCs in the ECM.

13. Confirm the vehicle's ignition switch is "OFF".

14. Use the DLC-II cable to connect CONSULT-II to the vehicle.

NOTE: On 1999 model vehicles use the DLC-I cable for DTC check.

15. Remove the ECM Reprogramming card from slot A of CONSULT-II and install the Diagnostics (blue) card into slot A (see Figure 14).

CAUTION: Do not use slot B.

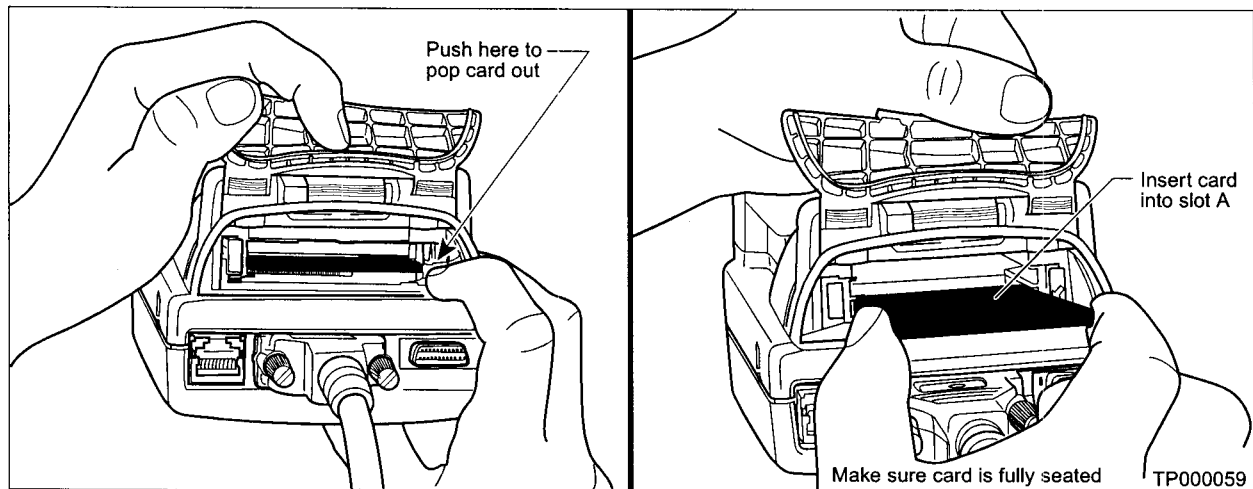


Figure 14

16. Turn "ON" the ignition switch (do not start the engine). CONSULT-II will turn on automatically (see Figure 15).

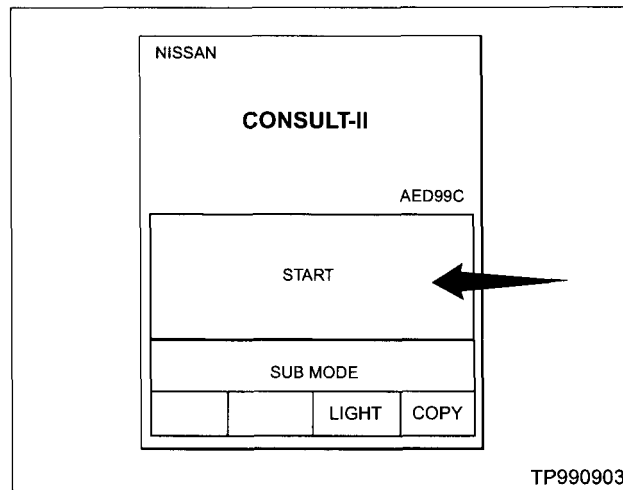


Figure 15

17. Press "START" and select "ENGINE".

18. Press "SELF-DIAG RESULTS" and confirm that no DTCs exist.

- If no DTCs exist, proceed to step 19.
- If DTCs exist, print them, then erase the DTCs and proceed to step 19.

NOTE: Additional repairs may be necessary if the DTC's are not associated with a Reprogramming bulletin. Refer to the appropriate Service Manual.

19. Press "Back" three times to return to the CONSULT-II main menu.

Confirm the vehicle and CONSULT II battery voltage.

20. Press "SUB MODE" and select "BATTERY CHARGE".

21. Refer to Figure 16. The vehicle battery voltage is "Charger Input". "Battery Voltage" is CONSULT-II's battery voltage.

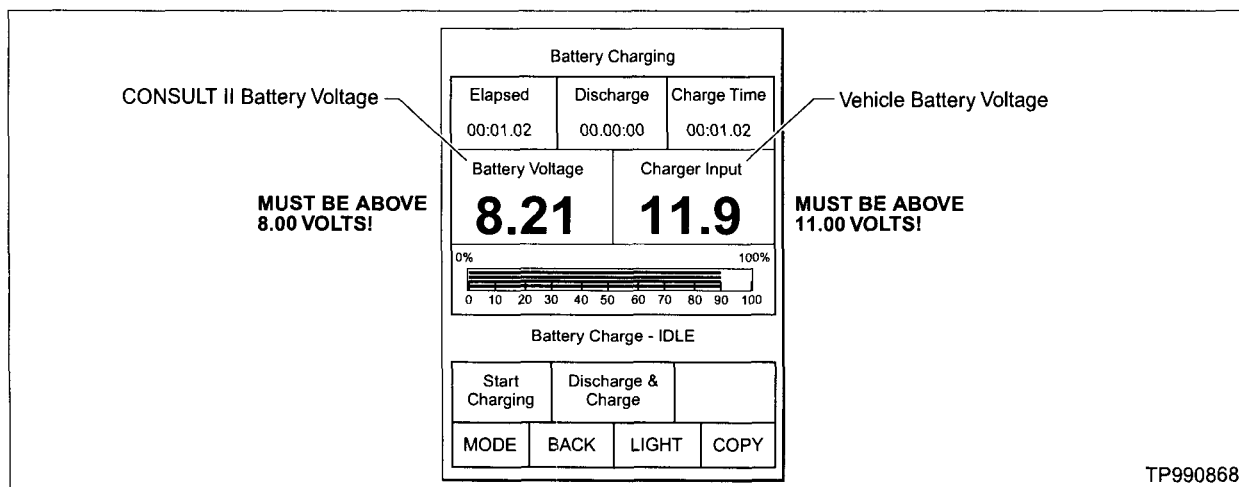


Figure 16

- If the vehicle battery voltage ("Charger Input") is less than 11 volts, charge it properly/replace it before proceeding with ECM Reprogramming.
- If CONSULT-II's battery ("Battery Voltage") is less than 8 volts, disconnect CONSULT-II and charge its battery before proceeding with ECM Reprogramming.
- If the batteries are within specification, proceed to step 22.

CAUTION: Do not attempt ECM Reprogramming if the voltage of either battery is below the specified voltage. ECM damage can occur if the batteries do not maintain the minimum voltage during the ECM Reprogramming.

ECM Reprogramming.

22. Turn the vehicle's ignition switch "OFF" and CONSULT-II off.

23. Remove the Diagnostics (blue) card from slot A of CONSULT II and install the ECM Reprogramming card (orange) into slot A (see Figure 17).

CAUTION: Do not use slot B.

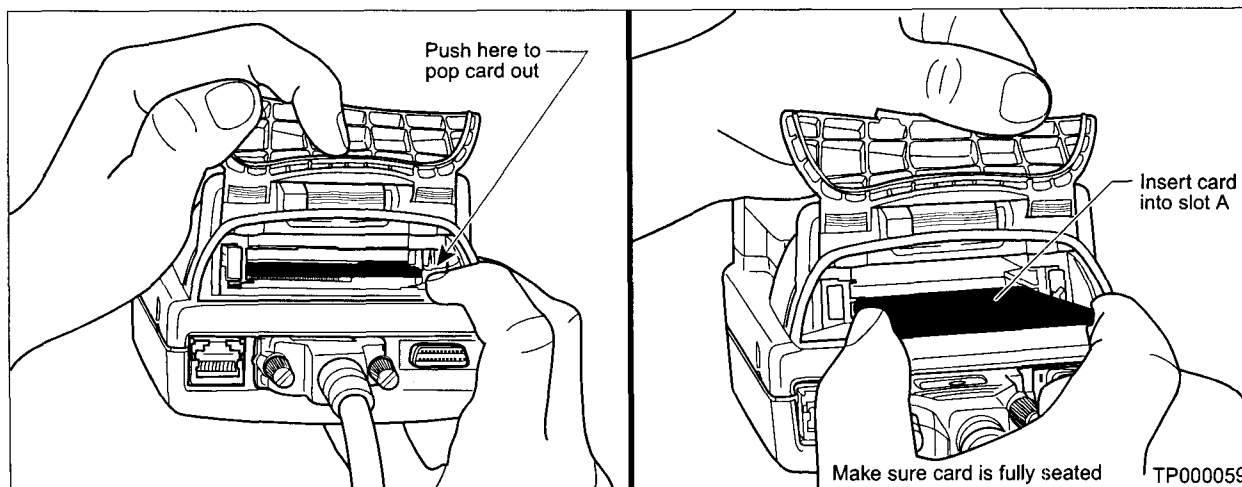


Figure 17

24. Make sure the DLC-II cable is firmly plugged into the vehicle harness (see **CAUTION** below). Turn "ON" the ignition switch (do not start the engine). CONSULT II will turn on automatically (see Figure 18).

NOTE: ALL Reprogramming operations are done with the DLC-II cable ONLY.

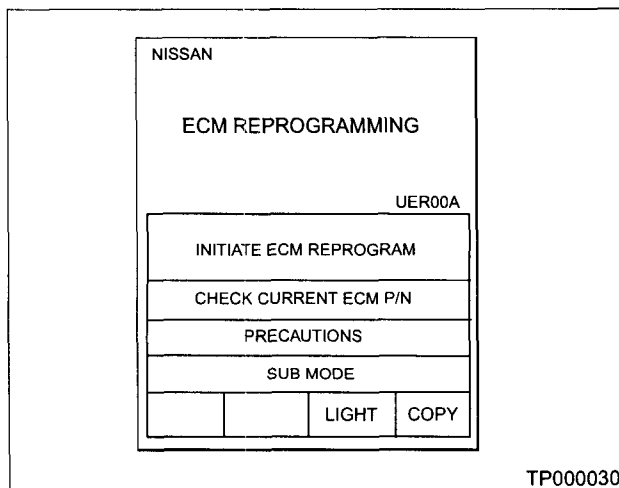


Figure 18

25. Confirm that all electrical loads (except for the ignition) such as headlights, defroster, A/C, Audio (radio), cellular telephone (if applicable) are "OFF".

CAUTION: Do not unplug CONSULT-II from the vehicle while Reprogramming ECM. Do not attempt ECM reprogramming with any vehicle electrical loads "ON" except for the ignition. ECM damage can occur.

26. Roll down the driver's window part way, exit the vehicle, close the door and hang the CONSULT II unit on the outside of the window (see Figure 19).

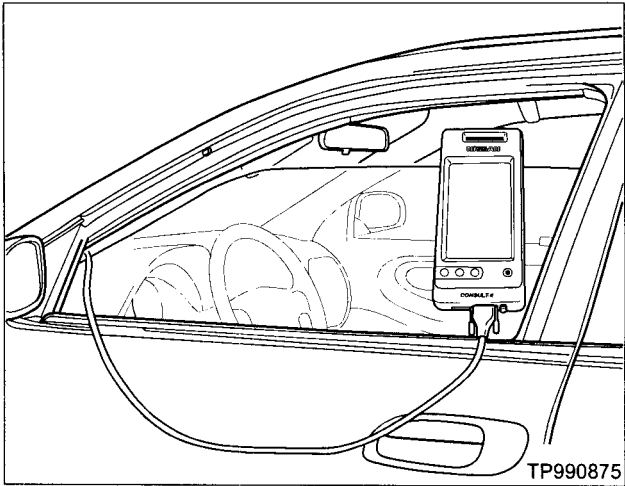


Figure 19

27. Press "CHECK CURRENT ECM P/N" to confirm the ECM part number on the vehicle to be reprogrammed (see Figure 20).

NOTE: This is the ECM part number BEFORE Reprogramming.

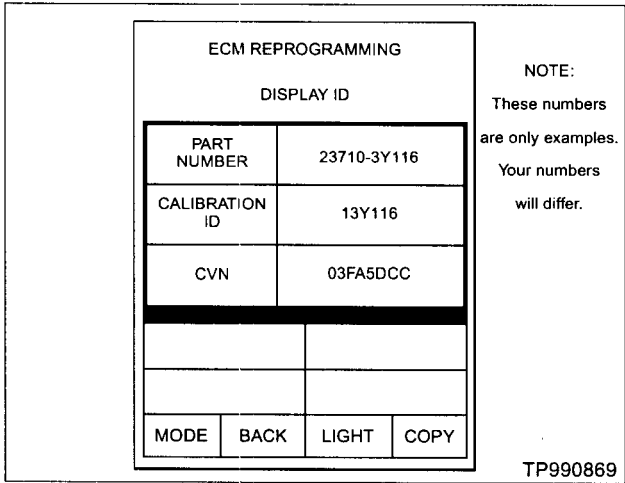


Figure 20

28. Press "COPY" to print the current ECM part number for future reference. Then press "BACK" to return to the main menu.

29. Press "INITIATE ECM REPROGRAM" to display the available ECM data in the card.

30. Select the correct ECM program to install from the choices on the CONSULT-II screen (see Figure 21).

SELECT ECM PROGRAM			
To 23710-2Y919 00MY A33 VQ30 FED/CAN AT NATS without TCS			
To 23710-3Y119 00MY A33 VQ30 CAL AT NATS without TCS			
To 23710-2Y964 00MY A33 VQ30 FED/CAN AT NATS TCS			
		DOWN	
	BACK	LIGHT	COPY

NOTE:
These numbers
are only examples.
Your data will differ.

NOTE:
"DOWN" will
not appear on
all models.

TP990870

Figure 21

31. The "REPROGRAM START" window should appear (see Figure 22).

NOTE: Refer to the ECM Reprogramming Software Operations Manual for instructions on error messages.

REPROGRAM START			
INSTALLING NEW DATA			
!!! CAUTION !!! LOW BATTERY CONDITION MAY CAUSE ECM DAMAGE. ALL ELECTRICAL LOADS MUST BE OFF DURING REPROGRAMMING.			
		START	
MODE	BACK	LIGHT	COPY

TP990871

Figure 22

32. Press "START". After a moment the window shown in Figure 23 will appear. CONSULT-II will now turn off its screen backlight and reprogram the ECM.

NOTE: This process will take from 10 to 20 minutes.

CAUTION: Leave the vehicle and the CONSULT-II unit undisturbed until Reprogramming is complete.

When the Reprogramming is complete, CONSULT-II will "beep", turn the screen backlight back on and automatically print out a report.

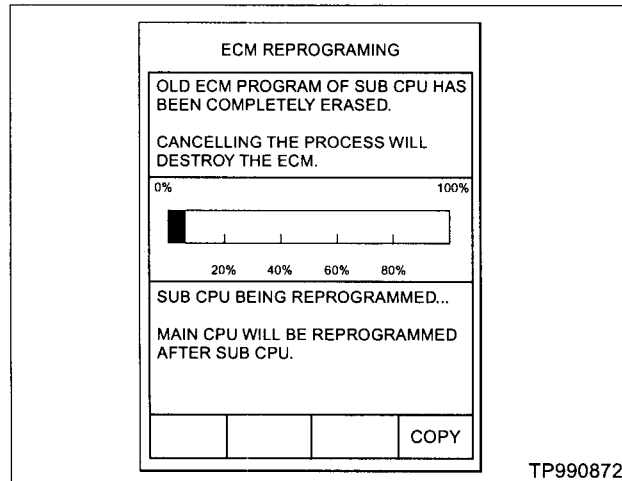


Figure 23

CAUTION: If CONSULT-II prints "REPROGRAMMING UNEXPECTEDLY TERMINATED"

- Turn the ignition key "OFF", turn CONSULT-II "OFF" and DISCONNECT THE NEGATIVE TERMINAL OF THE VEHICLE BATTERY (Do not allow the vehicle to be powered up with the damaged ECM installed).
- Remove the damaged ECM from the vehicle.
- Attach the CONSULT-II printout to the repair order for future reference.
- Replace the damaged ECM and return to step 5 on page 4 of this procedure.

33. Once ECM Reprogramming is done, CONSULT II will print out a report (see Figure 24). Attach this to the repair order for future reference.

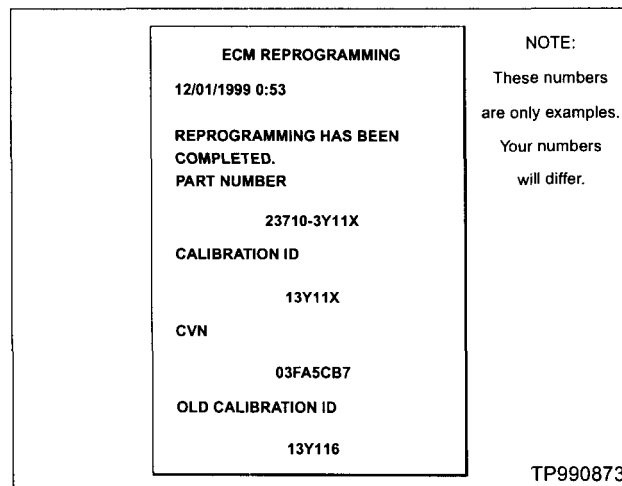


Figure 24

34. Press "END" to return to the main menu. Enter the vehicle and turn the ignition switch "OFF" and CONSULT-II off. Disconnect CONSULT-II from the vehicle.
35. **Wait more than 10 seconds, then turn the ignition switch "ON" for 1 second. Then, turn the ignition switch "OFF" again for 10 seconds.**
36. **Repeat step 35 for a total of three times (see Figure 25). This will reset ECM "self learned" values.**

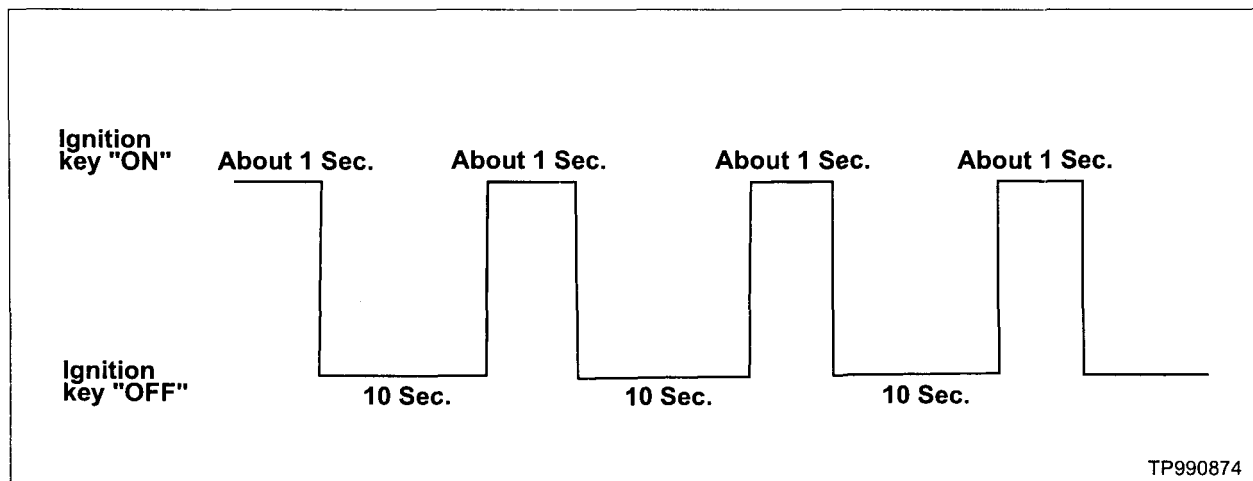


Figure 25

ECM Reprogram Confirmation.

37. Start the engine and confirm it is operating normally.

